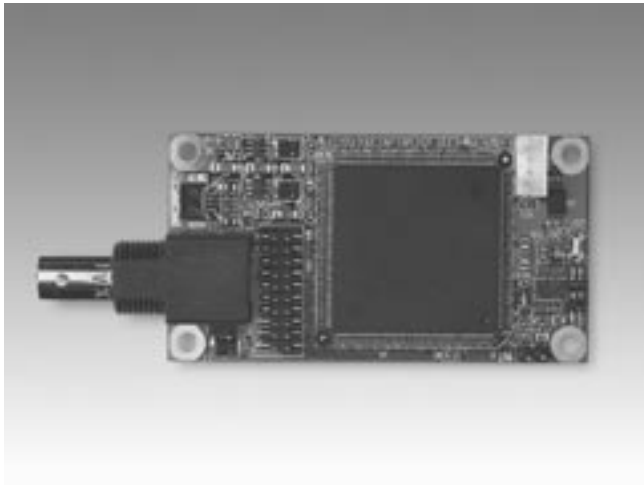


# DVP-1410

## 1 Channel MPEG 1/2/4 Digital Video Encoder Module with 128-byte EEPROM, USB 1.1 Interface



### Features

- Supporting MPEG-1/2/4 realtime video encoding up to D1 resolution and 30/25fps frame rate
- NTSC/PAL Composite video input through BNC or pin-header
- Hardware video encoding engine on board
- Built-in 128-byte user programmable EEPROM space
- Up to 4-modules installed into one PC system, setting by on-board DIP switch
- USB 1.1 interface, USB-bus powered
- Very low power consumption design
- Supporting MS-Windows 2000/XP/XPe with driver and SDK

### Introduction

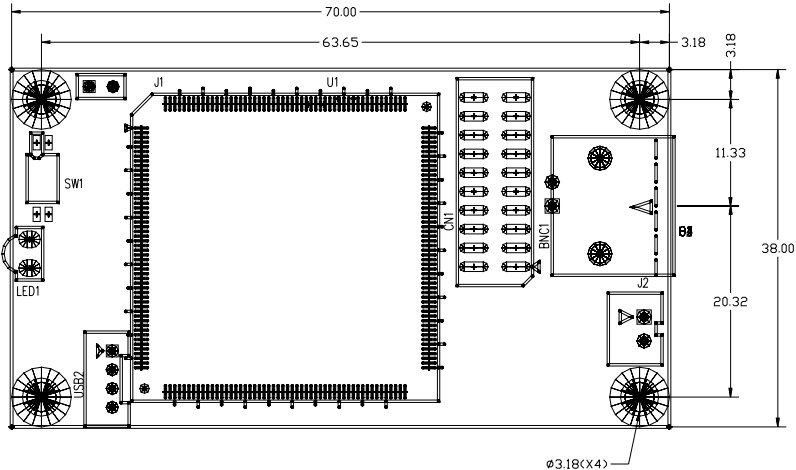
Designed for embedded video applications or upgrades to digital video, the DVP-1410 is a super compact-sized, embedded hardware MPEG1/2/4 encoder module which is easily integrated into many different types of existing equipment, such as Panel PCs, ATM machines, etc. DVP-1410 can accept standard composite video input through BNC or pin-header connectors and comes complete with SDK and driver for MS-Windows 2000 or XP OS environments.

By using a standard USB 1.1 interface, the DVP-1410 easily integrates with most Single Board Computers or PC based systems. The hardware MPEG video encoder engine can reduce the main CPU's workload, and the programmer's coding time. DVP-1410 also supports up to 30/25 fps (NTSC/PAL) at D1 resolution, whilst the dynamically adjustable bit rate and frame rate can accommodate variable bandwidths and quality to achieve optimum resolution. With the 128 byte EEPROM, the programmer can write protection codes or system parameters to it via our SDK. The DVP-1410 is an ideal compact embedded digital video solution for multiple applications such as Digital Video Recorder (DVR) multimedia kiosks or any application that requires Digital Video functions.

### Specifications

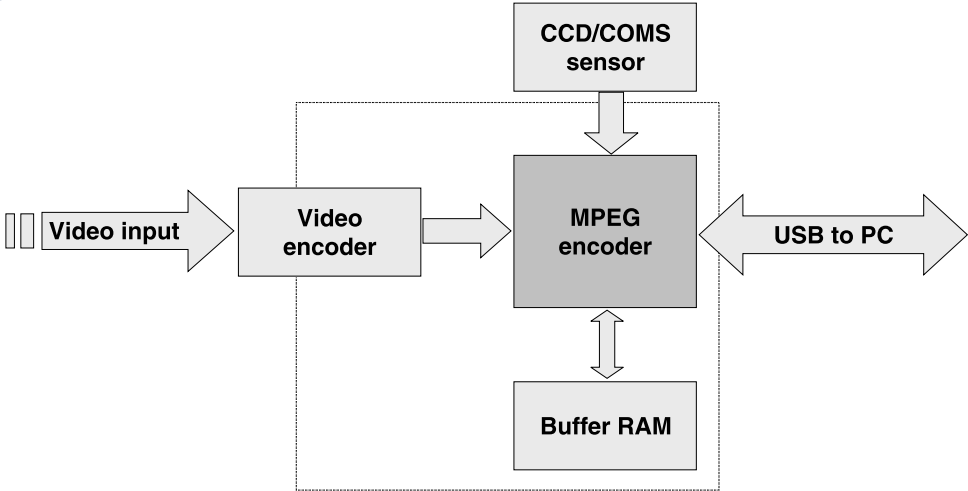
Video	Input Connectors	BNC or pin-header
	Video Standard	Composite for NTSC / PAL
	Resolution	Full D1 / VGA / CIF / QVGA from 64 x 64 to 720 x 576 (16-pixel increments)
	Frame Rate	30 fps (NTSC) / 25 fps (PAL)
	Video Encoding	MPEG1, MPEG2, MPEG4, H.263
	Image Processing	Hardware control of brightness, contrast, hue and saturation
	Compression	Programmable GOP structures of I, IP, IBP, IBBP, etc. Advanced MPEG-4 bit-rate control (CBR/VBR) from 1Kbps to 40 Mbps Dynamically adjustable bit rate and frame rate
Data Output Format	MPEG-4 Simple Profile @ L3 plus B-Picture support (Supporting Microsoft/DivX/SigmaDesign format) MPEG-2 MP @ ML MPEG-1 H.263	
Host Communication	Host Interface	Internal USB 1.1 (Compatible with USB 2.0)
	Max. Module	Up to 4 modules in one PC system, setting by DIP switch
	Driver and SDK	Supporting Microsoft Windows 2000/XP/XP Embedded
	Demo Program	Complete demo program with C source code for reference
Hardware	EEPROM	Providing 128 bytes EEPROM with SDK for programming
	Dimensions (W x H)	70 x 38 mm
	Power Consumption	+5V DC input by USB bus, max. 400 mA
	Temperature	0 ~ 60 °C (32 ~ 140 °F; Operating) -20 ~ 70 °C (-4 ~ 158 °F; Non-Operating)

**Dimension Diagram**



Unit: mm (inch)

**Block Diagram**



**Ordering Information**

Part Number	Description
DVP-1410	1 channel MPEG 1/2/4 encode module with 128-byte EEPROM, USB 1.1 interface

**Packing List**

- Internal USB cable X 1
- Startup manual X 1
- Utility CD X 1

**Accessory Options**

- PCI-slot bracket for 1-module DVP-1410
- PCI-slot bracket for 2-modules DVP-1410